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NOTICE OF ALLOWANCE AND FEE(S) DUE

35969

7590

07/15/2010

Barbara A. Shimei Director, Patents & Licensing Bayer HealthCare LLC - Pharmaceuticals 555 White Plains Road, Third Floor Tarrytown, NY 10591 EXAMINER

CARLSON, KAREN C

ART UNIT PAPER NUMBER

1656

DATE MAILED: 07/15/2010

1	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
•	10/572,175	05/16/2007	Stefan Golz	LE A 36 839	7833

TITLE OF INVENTION: ISOLATED PHOTOPROTEIN MTCLYTIN, AND USE THEREOF

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	10/15/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless corrected international maintenance fee notifications.	correspondence including ed below or directed oth	g the Patent, advance or terwise in Block 1, by (a	rders and notification of an appecifying a new corre	maintenance fees wi espondence address;	Il be mailed to the current and/or (b) indicating a sepa	correspondence address as rate "FEE ADDRESS" for
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Tarrytown, NY	s Road, Third Floor 10591					(Depositor's name)
•						(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	₹	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/572,175	05/16/2007		Stefan Golz		LE A 36 839	7833
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APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE		DATE DUE
nonprovisional	NO	\$1510	\$300	\$ 0	\$1810	10/15/2010
EXAM	IINER	ART UNIT	CLASS-SUBCLASS	_		
CARLSON,	, KAREN C	1656	435-069100			
. Change of correspondence address or indication of "Fee Address" (37 :FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON 1			(I) the names of up to or agents OR, alternati (2) the name of a sing registered attorney or 2 registered patent atto listed, no name will be FHE PATENT (print or ty	ively, le firm (having as a agent) and the name orneys or agents. If n printed.	member a 2s of up to	
PLEASE NOTE: Uni recordation as set fort (A) NAME OF ASSIG	_	fied below, no assignee eletion of this form is NO	(B) RESIDENCE: (CITY	Y and STATE OR CO	,	
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a. The following fee(s) are submitted: Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies			A check is enclosed. Payment by credit ca	rd. Form PTO-2038	is attached. e the required fee(s), any de	
a. Applicant claim	tus (from status indicated s SMALL ENTITY statu	is. See 37 CFR 1.27.	☐ b. Applicant is no lor	nger claiming SMAL	L ENTITY status. See 37 CI	FR 1.27(g)(2).
NOTE: The Issue Fee an interest as shown by the i	d Publication Fee (if requeecords of the United Sta	nired) will not be accepted tes Patent and Trademark	d from anyone other than Office.	the applicant; a regis	tered attorney or agent; or th	e assignee or other party in
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n application. Confiden ubmitting the completed his form and/or suggesti	tiality is governed by 35 d application form to the ions for reducing this but	U.S.C. 122 and 37 CFR USPTO. Time will vary den. should be sent to the	1.14. This collection is es depending upon the indi- e Chief Information Offic	stimated to take 12 m vidual case. Any cor er. U.S. Patent and T	e public which is to file (and inutes to complete, includin nments on the amount of tir rademark Office, U.S. Depa SEND TO: Commissioner	g gathering, preparing, and me you require to complete artment of Commerce, P.O.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/572,175	05/16/2007	Stefan Golz	LE A 36 839	7833
35969 73	590 07/15/2010		EXAM	IINER
Barbara A. Shim	ei	CARLSON	, KAREN C	
Director, Patents &		ART UNIT	PAPER NUMBER	
Bayer HealthCare 555 White Plains I Tarrytown, NY 10		1656 DATE MAILED: 07/15/201	0	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 151 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 151 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/572,175	GOLZ ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Karen Cochrane Carlson	1656	
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED in this ag or other appropriate communicatio IGHTS. This application is subject and MPEP 1308.	oplication. If not included on will be mailed in due course. THIS	
1. This communication is responsive to the paper filed April:	<u>22, 2010</u> .		
2. X The allowed claim(s) is/are <u>1,4-6,8,9,14,15 and 20-23</u> .			
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	e been received. e been received in Application No		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		y complying with the requirements	
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 			
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") mus (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the company of the paper No./Mail Date	son's Patent Drawing Review (PTC). s Amendment / Comment or in the .84(c)) should be written on the draw he header according to 37 CFR 1.121 sit of BIOLOGICAL MATERIAL	Office action of rings in the front (not the back) of (d). must be submitted. Note the	
attached Examiner's comment regarding REQUIREMENT Attachment(s) 1. □ Notice of References Cited (PTO-892) 2. □ Notice of Draftperson's Patent Drawing Review (PTO-948)	5. ☐ Notice of Informal 6. ☐ Interview Summar	Patent Application	
	Paper No./Mail Da	ate	
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 	7. 🛛 Examiner's Amendment/Comment		
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	8. Examiner's Statement of Reasons for Allowance		
<u> </u>	9.		

This Office Action is in response to the paper filed April 22, 2010.

Claims 1, 4-6, 8, 9, 14, 15, and 20-23 are currently pending.

Benefit of priority is to September 16, 2003.

An **Examiner's Amendment** to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Thomas C. Blankinship on June XX, 2010.

Examiner's Amendments to the Claims:

- 1. (Previously presented) An isolated nucleic acid molecule which is selected from the group consisting of:
- a) a nucleic acid molecule which encodes a polypeptide which contains the amino acid sequence disclosed by SEQ ID NO: 2;
- b) a nucleic acid molecule which contains the sequence depicted by SEQ ID NO: 1;
- c) a nucleic acid molecule which exhibits a sequence identity along its full length with SEQ ID NO: 1 of at least 95% and encodes a polypeptide which has the biological function of a photoprotein; and

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d) a nucleic acid molecule which exhibits a sequence identity along its full length with SEQ ID NO: 1 of at least 65% and encodes a polypeptide which has the biological function of a photoprotein.

2-3. (Canceled)

- 4. (Previously presented) The nucleic acid as claimed in claim 1, which contains a functional promoter 5' to its coding sequence.
- 5. (Previously presented) A recombinant DNA or RNA vector which contains the nucleic acid as claimed in claim 4.
- 6. (Previously presented) An organism which harbors the vector as claimed in claim 5.
 - 7. (Canceled)
- 8. (Previously presented) An isolated polypeptide which is encoded by a nucleic acid sequence as claimed in claim 1.
- 9. (Previously presented) A method for <u>producing a polypeptide having</u>

 <u>phosphoprotein activity, said method comprising placing the nucleic acid of claim 1 into</u>

 <u>a expressing the polypeptide as claimed in claim 8 in bacteria, a viral system, yeast or a eukaryotic cell or in an in-vitro expression system <u>under conditions that express said</u>

 <u>nucleic acid, and thereby producing by expressing said polypeptide.</u></u>

10-13. (Canceled)

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14. (Previously presented) The nucleic acid as claimed in claim 1, further comprising a nucleic acid encoding a polypeptide other than that encoded by the nucleic acid of claim 1, wherein a fusion gene is formed and wherein said fusion gene functions as a marker gene or reporter gene.

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15. (Previously presented) A photoprotein polypeptide encoded by the <u>nucleic</u>

<u>acid fusion-gene</u> of claim 14, wherein said <u>photoprotein</u> polypeptide functions as a <u>label</u>

<u>marker</u> or reporter.

16-19. (Canceled)

- 20. (Previously presented) The polypeptide as claimed in claim 8, wherein said polypeptide functions as a reporter protein in searching for pharmacologically active compounds.
- 21. (Previously presented) The nucleic acid as claimed in claim 1, wherein said nucleic acid functions as a reporter gene in searching for pharmacologically active compounds.
- 22. (Previously presented) The polypeptide of claim 8, wherein said polypeptide is coupled to an additional protein.
- 23. (Currently Amended) The conjugate polypeptide of claim 22, wherein said additional protein is selected from the group consisting of: an antibiotic, an enzyme, a receptor, an antibody and an ion channel.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karen Cochrane Carlson whose telephone number is 571-272-0946. The examiner can normally be reached on 6:00 AM - 4:00 PM, Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Manjunath Rao can be reached on 571-272-0939. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Karen Cochrane Carlson/ Primary Examiner, Art Unit 1656 Application/Control Number: 10/572,175

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